

1. Составьте список пользователей users, которые осуществили хотя бы один заказ (orders) в интернет-магазине.

```
mysql> select id, name from users;
+----+-----+
| id | name      |
+----+-----+
| 1  | Вася      |
| 2  | Петя      |
| 3  | Валя      |
| 4  | Оксана    |
| 5  | Степа     |
| 6  | Антошка   |
| 7  | Нина      |
+----+-----+
```

```
mysql> select * from catalogs;
+----+-----+
| id | name      |
+----+-----+
| 1  | Процессоры |
| 2  | Мат.платы  |
| 3  | Видеокарты |
+----+-----+
```

```
mysql> select * from products;
+----+-----+-----+-----+-----+
| id | name                | description | price  | catalog_id |
+----+-----+-----+-----+-----+
| 1  | Intel Core i3-8100  |             | 7890.00 | 1           |
| 2  | Intel Core i5-7400  |             | 12700.00 | 1           |
| 3  | AMD FX-8320E        |             | 4780.00 | 1           |
| 4  | AMD FX-8320         |             | 7120.00 | 1           |
| 5  | ASUS ROG MAXIMUS X HERO |           | 19310.00 | 2           |
| 6  | Gigabyte H310M S2H   |             | 4790.00 | 2           |
| 7  | MSI B250M GAMING PRO |             | 5060.00 | 2           |
+----+-----+-----+-----+-----+
```

```
mysql> select id, user_id from orders order by id;
+----+-----+
| id | user_id |
+----+-----+
| 1  | 2       |
| 2  | 3       |
| 3  | 1       |
| 4  | 4       |
+----+-----+
```

```
mysql> select id, order_id, product_id, total from orders_products;
+-----+-----+-----+-----+
| id | order_id | product_id | total |
+-----+-----+-----+-----+
| 1 | 1 | 2 | 1 |
| 2 | 2 | 3 | 1 |
| 3 | 3 | 1 | 1 |
| 4 | 4 | 5 | 1 |
| 5 | 3 | 4 | 1 |
| 6 | 4 | 2 | 1 |
+-----+-----+-----+-----+
```

```
mysql> SELECT
-> users.id AS user_id, users.name,
-> orders.id AS order_id
-> FROM
-> users
-> RIGHT JOIN
-> orders
-> ON
-> users.id = orders.user_id;
+-----+-----+-----+
| user_id | name | order_id |
+-----+-----+-----+
| 1 | Вася | 3 |
| 2 | Петя | 1 |
| 3 | Валя | 2 |
| 4 | Оксана | 4 |
+-----+-----+-----+
```

2. Выведите список товаров products и разделов catalogs, который соответствует товару.

```
mysql> SELECT
-> p.name AS product_name, p.price AS product_price, c.name AS catalog_name
-> FROM
-> products AS p
-> JOIN
-> catalogs AS c
-> ON
-> p.catalog_id = c.id;
+-----+-----+-----+
| product_name | product_price | catalog_name |
+-----+-----+-----+
| Intel Core i3-8100 | 7890.00 | Процессоры |
| Intel Core i5-7400 | 12700.00 | Процессоры |
| AMD FX-8320E | 4780.00 | Процессоры |
| AMD FX-8320 | 7120.00 | Процессоры |
| ASUS ROG MAXIMUS X HERO | 19310.00 | Мат.платы |
| Gigabyte H310M S2H | 4790.00 | Мат.платы |
| MSI B250M GAMING PRO | 5060.00 | Мат.платы |
+-----+-----+-----+
```

3. (по желанию) Есть таблица рейсов flights (id, from, to) и таблица городов cities (label, name). Поля from, to и label содержат английские названия городов, поле name — русское. Выведите список рейсов (flights) с русскими названиями городов.

```
mysql> select * from cities;
```

label	name
Irkutsk	Иркутск
Kazan	Казань
Moscow	Москва
Novgorod	Новгород
Omsk	Омск
Saint Petersburg	Санкт-Петербург
Tomsk	Томск
Ufa	Уфа

```
mysql> select * from flights;
```

id	from	to
1	Moscow	Saint Petersburg
2	Saint Petersburg	Omsk
3	Omsk	Tomsk
4	Tomsk	Ufa
5	Ufa	Moscow
6	Irkutsk	Moscow
7	Novgorod	Kazan
8	Omsk	Irkutsk

```
mysql> SELECT
-> id AS flight_id,
-> (SELECT name FROM cities WHERE label = `from`) AS `from`,
-> (SELECT name FROM cities WHERE label = `to`) AS `to`
-> FROM
-> flights;
```

flight_id	from	to
1	Москва	Санкт-Петербург
2	Санкт-Петербург	Омск
3	Омск	Томск
4	Томск	Уфа
5	Уфа	Москва
6	Иркутск	Москва
7	Новгород	Казань
8	Омск	Иркутск